

## ABSTRACT

It is to provide a lithium ion capacitor having a high capacity retention at the time of continuous charge at a high temperature and excellent in durability.

5       A lithium ion capacitor comprising a positive electrode, a negative electrode and an aprotic organic solvent electrolyte solution of a lithium salt as an electrolytic solution, characterized in that a positive electrode active material is a material capable of  
10   reversibly supporting lithium ions and/or anions, a negative electrode active material is a material capable of reversibly supporting lithium ions, the negative electrode and/or the positive electrode is doped with lithium ions so that the potential of the positive  
15   electrode is at most 2.0 V after the positive electrode and the negative electrode are short-circuited, and the electrolytic solution contains vinylene carbonate or its derivative.